

REMOTELY CONTROLLED WELDING MACHINE

Abstract

The present invention is directed to a remotely controlled welding machine. A remote control uses the welding circuit to transfer information to a welding power source. The information to be communicated to the power source includes welding power source output command information (amperage/voltage control), welding circuit on/off information (power source output contactor control), and power source mode control (constant voltage/constant current). A transmitter transmits the desired welding operational parameters to a receiver disposed in the power source. The transmitter is constructed to use only a small amount of power which, preferably, is supplied by one or two low voltage replaceable and/or rechargeable batteries. Additionally, an open circuit voltage is not created between the power source and an electrode holder when an arc is not present.